

15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 1997 ACS
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TITLE: Pharmaceuticals permeable to blood-brain barrier
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PATENT ASSIGNEE(S): Teijin Ltd., Japan
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PATENT INFORMATION:	JP 61204136 A2860910	Showa
APPLICATION INFORMATION:	JP 85-42594	850306
DOCUMENT TYPE:	Patent	
LANGUAGE:	Japanese	
INT. PATENT CLASSIF.:		
MAIN:	A61K047-00	
CLASSIFICATION:	63-6 (Pharmaceuticals)	
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ABSTRACT:

Pharmaceuticals permeable to the blood-brain barrier contain long-chain unsatd. fatty acids such as 4,7,10,13,16-docosapentaenoic acid (I), and pharmaceuticals such as hypnotics, antiepileptics, antipyretics, etc. Thus, I 60, phosphatidylcholine 2, and H₂O 38 parts by wt. were mixed with diazepam-N-methyl-3H, and homogenized in an ultrasonic oscillator to give a uniform dispersion. The radioactivity of diazepam was 20 .mu.Ci/mL. This soln. was i.v. injected at 0.5 mL into the rat, which was sacrificed 5 min later to exam. the radioactivity in the brain. The concn. of diazepam in the brain was 3 times that of control injected with a formulation contg. no I.

SUPPL. TERM: blood brain barrier pharmaceutical; fatty acid
pharmaceutical brain barrier
INDEX TERM: Pharmacokinetics
(blood-brain barrier in, unsatd. fatty acid effect
on)
INDEX TERM: Blood-brain barrier
(permeability of, to drugs, long-chain unsatd.)

INDEX TERM:

fatty acids enhancement of)
Fatty acids, biological studies
ROLE: THU (Therapeutic use); BIOL (Biological study);
USES (Uses)

(long-chain, unsatd., pharmaceuticals contg., for
improved penetration of blood-brain barrier)

INDEX TERM:

2091-24-9, 4,7,10,13,16,19-Docosahexaenoic acid
2091-25-0, 7,10,13,16-Docosatetraenoic acid
2091-39-6, 11,14-Eicosadienoic acid 2313-14-6,
4,7,10,13,16-Docosapentaenoic acid 2751-14-6,
5,8,11-Eicosatrienoic acid 7771-44-0,
5,8,11,14-Eicosatetraenoic acid 14490-79-0,
15-Tetracosenoic acid 95746-76-2 106868-36-4,
4,7,10,13-Docosatetraenoic acid 106868-37-5,
4,8,12,16-Eicosatetraenoic acid
ROLE: THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
(pharmaceuticals contg., for improved penetration
of blood-brain barrier)